



Joint Automotive Data Model



Background

Core Components – ISO UN/CEFACT	GEFEG EDIFIX Tool	Joint Automotive Data Model AIAG JAMA/JAPIA Odette STAR
XML Schema – OAGIS BODs		
Modeling - UML/UMM		
Operational Planning Process	Consistent Work Templates	POC Testing Environment

AIAG Electronic Commerce Tool Kit

Background (cont'd)

- Joint Automotive Data Model (JADM) was jointly developed by AIAG, Odette, JAMA, and JAPIA
- The JADM has been instantiated as EDIFACT messages by the above organizations
- STAR joins JADM group adding auto retail to the data model
- Four organizations have funded JADM Phase 1

JADM Content Assumptions

- ISO 15000-5/UN/CEFACT Core Components (CCTS)
- UML/UMM to express business process and data definitions
- GEFEG EDIFIX tool integration of CCTS and UML/UMM
- OAGIS incorporation of CCTS
- Alignment and integration of JADM and OAGi work
- Star requirements will support retail automotive

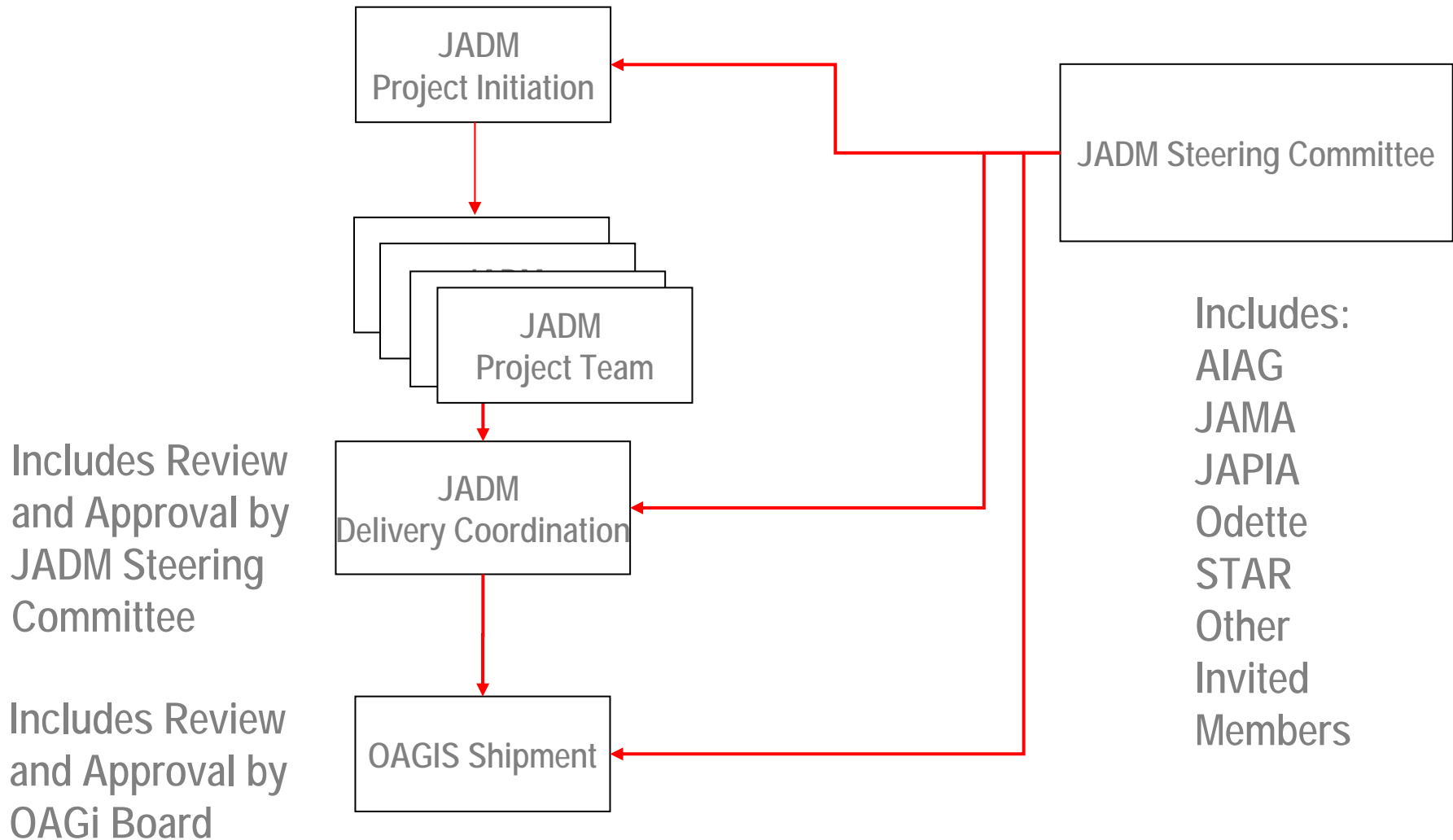
JADM Phase 1 Effort

- Integration CCTS into JADM and alignment with OAGIS 9.0
- Inclusion of AIAG BODs and STAR BODs/repository
- Formed Core Development Team to oversee work:
 - AIAG: Mary Kay Blantz, Steve Rudelic
 - STAR: Michelle Vidanes, Dave Carter
 - JAMA/JAPIA: Katsushi Terao
 - Odette: Patrick Chable, Rob Exell
 - Contributors: Joerg Walther, GEFEG
Garret Minakawa, OAGI

JADM Phase 1 Effort (cont)

- Phase 1 work is to be delivered by July 2005
- Other phases may follow based on need
- Lays the foundation to semantically support all functional domain business processes, such as Engineering, Quality, Materials, Financial, Retail

Collaborative Construction



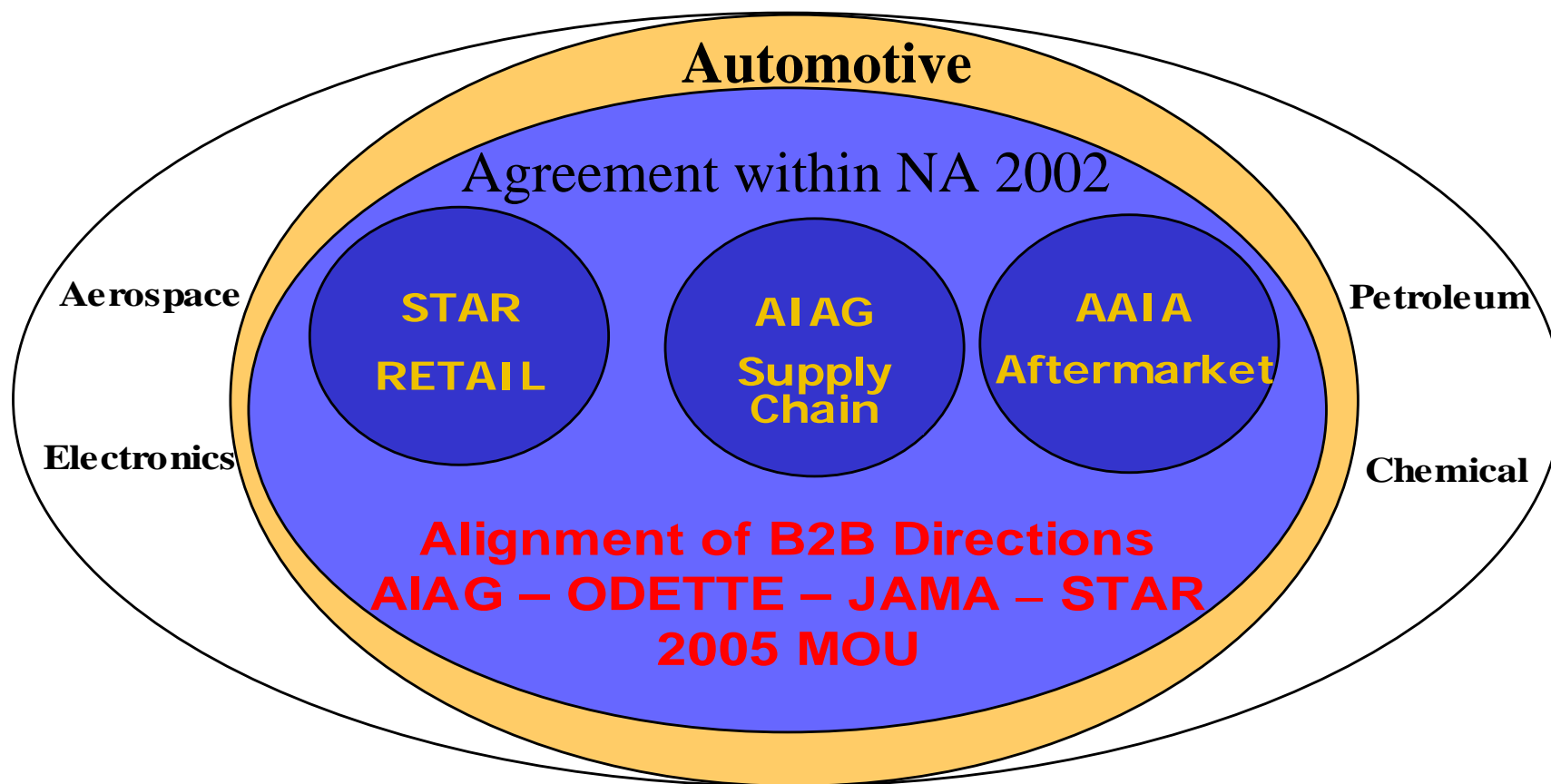
JADM Concepts

- Formally establish the Joint Automotive Industry (JAI) as owners of the mutual content:
 - AIAG, JAMA/JAPIA, Odette and STAR
 - Supporting organizations are GEFEG and OAGI
- Requires coordinated effort for all groups to jointly meet their goals
- Mutual selection of standards, methods and tools
- Utilize work from UN/CEFACT and ISO and reciprocally bring user content to these bodies

JADM Purpose

- Provides international standard direction for developing business content, including process definitions and data definitions, expressed in XML
- Sets the stage for the automotive industry to move toward seamless, interactive business communications
- Lays foundation for semantic interoperability

Alignment Opportunities...



IV&I Completed Deliverables - Phase I

IVI Business Processes

- ✓ Min/Max
- Kanban
- Sequencing
- Schedules and Forecast

IVI Data Messages (XML BODs)

- ✓ SyncShipment
- ✓ SyncQOH
- ✓ SyncDelivery Receipt

IVI Transport
(ebXML)

IVI Transport
(Web services)

✓ POC Whitepaper

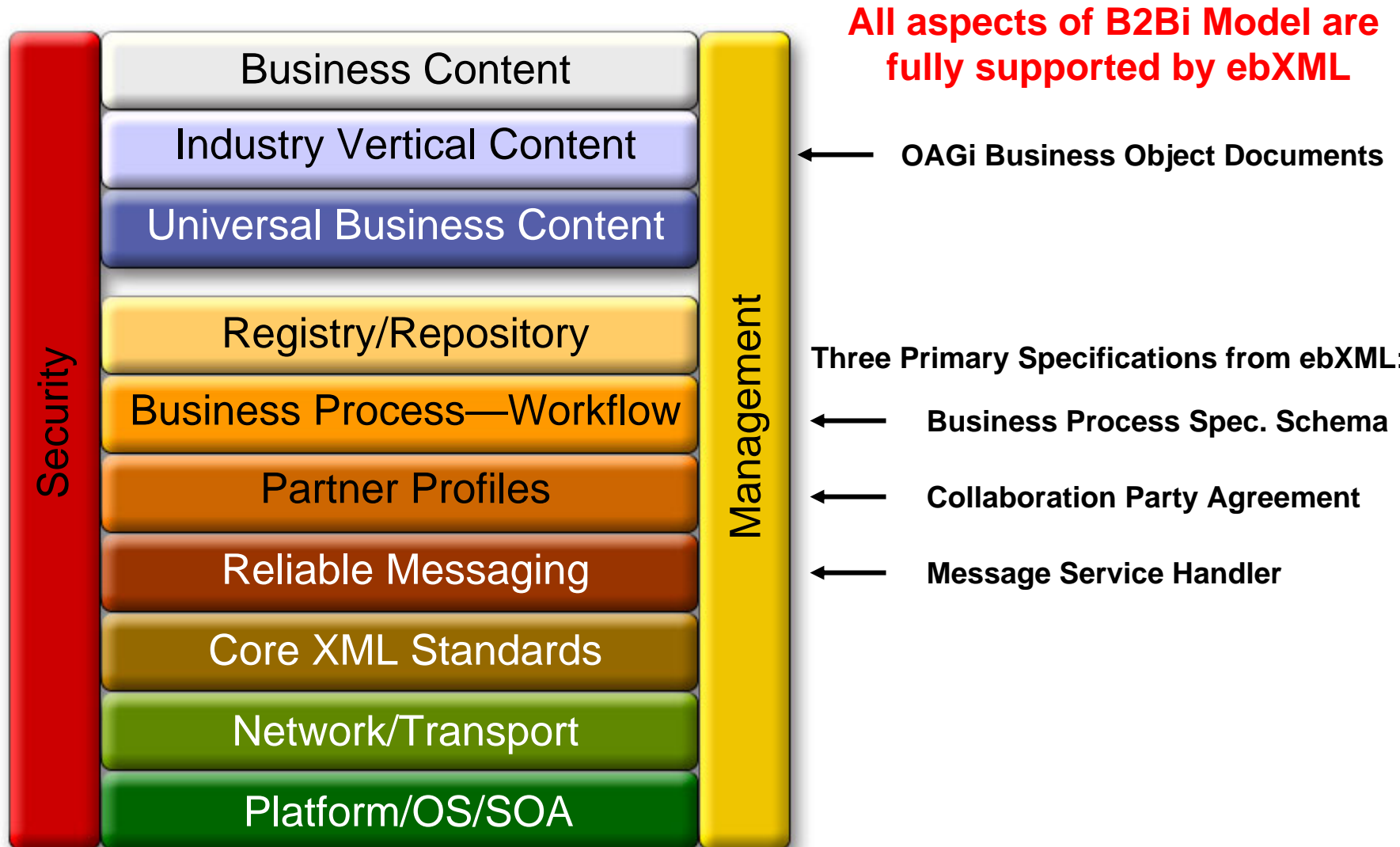
IV&I Deliverables - Phase 2

- Kanban business process
- Interoperability testing for security, reliable messaging and addressing
- Planned floor demo at AutoTech 2005
- Web Service based solution appears to be the most desirable by test participants

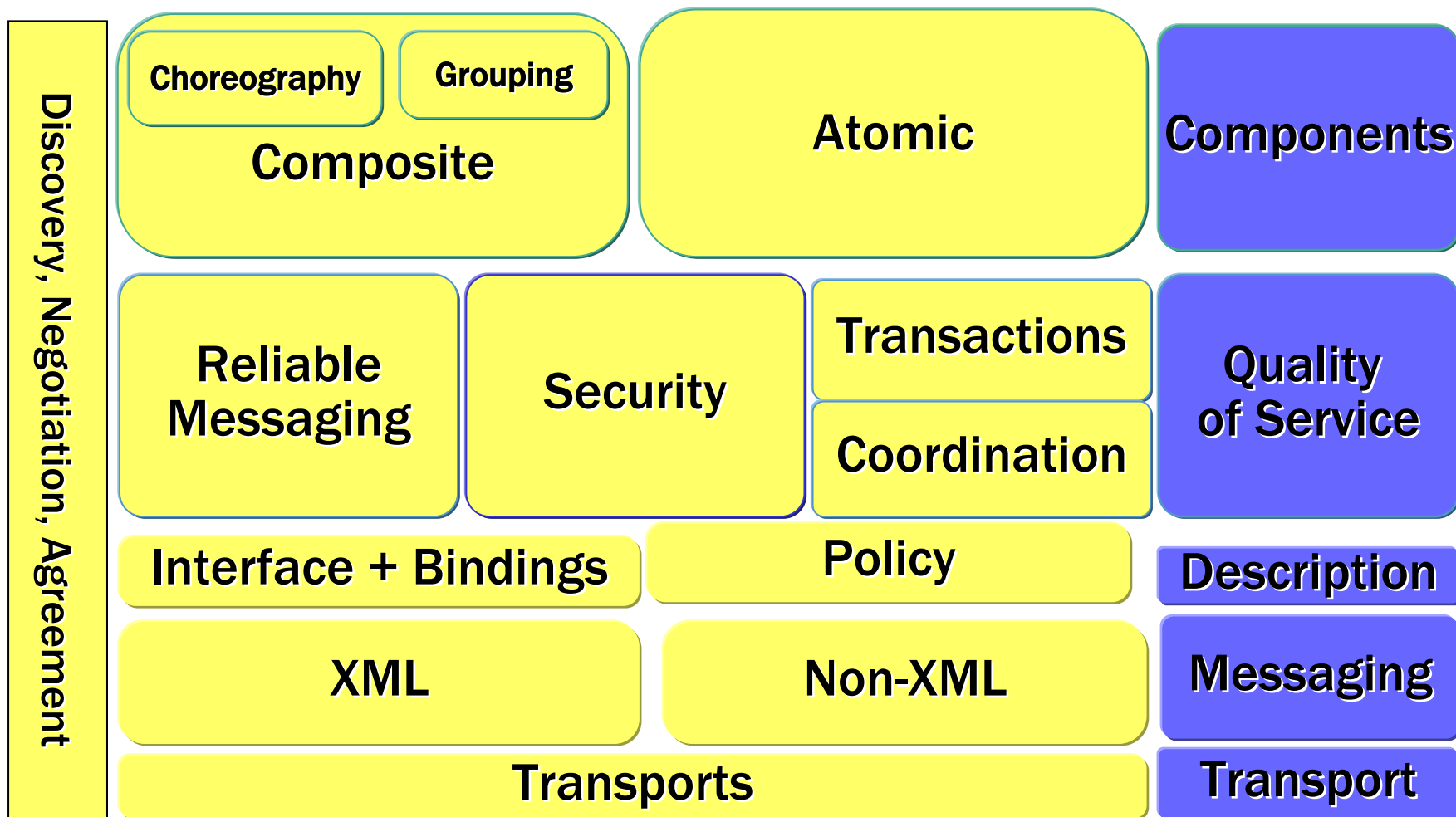
SOA Convergence Project

- Business users are documenting problems
- Technology providers have documented a business specification framework
- Survey of user community has been conducted to better understand current environment and planned investments
- FERA (Federated Enterprise Requirements Architecture) workshop to review business patterns planned for June 17, 2005

ebXML – Expanded View



Web Services “Stack”



STAR = Business Value

- Ensure standards align with members' business needs
- Support member implementations – share results
- Strengthen global partnerships
- Add new standards, add functionality

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STAR
STANDARDS FOR TECHNOLOGY IN AUTOMOTIVE RETAIL

Still Selling in Flatland?

Trying to make your way in the world of Automotive Retail using proprietary-driven IT systems is like trying to circumnavigate the globe using maps that were made when people believed the earth was flat—it's an old idea that imposes limits on your thinking and business potential.

That's why OEMs, Dealers and Retail Service Providers created STAR—Standards for Technology in Automotive Retail. Join STAR and your business enjoys the following benefits:

- Improved data accuracy and quality through industry standards
- Managed costs through elimination of custom interfaces for you and your customers
- Reduced manual and redundant processes at your dealership
- Integrated business-critical data throughout all applications made easy and cost-effective

Navigate to Your IT Solution Chart for the STAR!

More Key Alliances

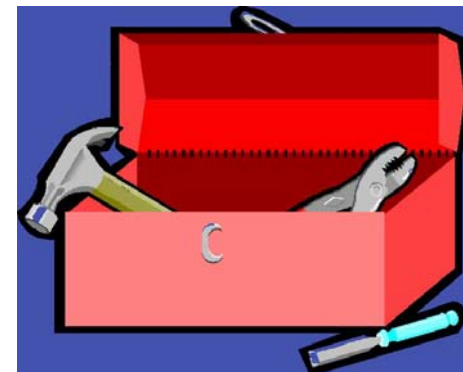
AIAG	Automotive supply chain - EWS
AutoDESA	Australian automotive retail industry – DCS
CCAQ	Quebec Dealers Association – DCS
CIECA	Collision repair industry
MIC	Motorsport Industry DCS
OAG	Standards Methodology



- Standardize IT infrastructures – **global solution**
- Improve business collaboration – **common vocabulary**
- Speed standards development and use

STAR = Business Value

- STAR Tool Kit
 - DIG – STAR compliant Dealers
 - Transport - OEMs and RSPs use the Internet
 - Common business vocabulary for DCS – XML
- Business Value
 - Simplify IT infrastructure
 - Increase operational efficiency
 - Improve cost effectiveness
 - Use non-proprietary technology that supports future growth



STAR Standards Summary

- **74 BODs in 2005 STAR release**
- **Standards contribute to business needs**
 - **112 implementations of STAR standards**
- **12 Manufacturer implementations**
- **15 RSP implementations**